

Document 00910

ADDENDUM NO. 5

Date of Addendum: 5/12/15

PROJECT NAME: Memorial Drive Paving and Drainage Improvements from North Kirkwood Road to North Eldridge Parkway

PROJECT NO: WBS No. N-000798-0001-4; CSJ No. 0912-70-082

BID DATE: May 14, 2015 (There is no change to the Bid Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
Houston, Texas 77002
Attn: Michelle Randon, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: Remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGES TO PROJECT MANUAL

1. Document 00410B – Remove and replace document 00410B in its entirety.

CLARIFICATIONS

1. Question: *The project plans and specifications do not appear to identify the minimum thickness for steel casing above 24-inch diameter. Please specify the minimum thickness for 42-inch steel casing.*

Clarification: The minimum wall thickness for a Grade B, 42-inch steel casing pipe meeting ASTM A53 with a minimum yield strength of 35,000 psi is 0.625 inches.

2. Question: *We (contractor) calculated an excavation total of 207,692 CY using a pavement thickness of 1 foot based on the cross sections in the plans using the average end method to calculate the volumes. However, the bid quantity in Document 00410 is only 40,026 CY?*

Clarification: The cross sectional areas, as noted at the top of the table in the plans, have a vertical scale exaggeration factor of 5. Therefore, the cross sectional areas, as measured, must be divided by the vertical scale factor of 5 to calculate the correct excavation quantity.

3. Question: *The excavation and embankment quantities associated with the construction of the box culvert bridge structure are missing.*

Clarification: The excavation and fill associated with the construction of the 10-ft by 10-ft box culverts and the associated abutments, wingwalls, and slope paving is incidental to the construction of the box culvert bridge structure and should be included in the cost of these items in accordance with COH specifications.

4. Question: *The construction of the seal slab and the installation of the triple 10-ft by 10-ft box culverts under the existing bridge may result in a 10 foot tall exposed soil face under the existing bridge abutment. Will the exposed face of the existing soil need to be shotcreted to ensure that the soil remains stable during construction?*

Clarification: The contractor should review the geotechnical report carefully in order to be familiar with the soil conditions at the bridge. All excavation, shoring, stabilization, etc. is part of the contractor's means and methods and is incidental to the installation of the 10-ft by 10-ft box culverts.

5. Question: *There are 71 trees shown to be planted in the 00410, but the planting plan does not appear to have that many trees to be planted?*

Clarification: Bid item 10, 11, 12 & 13 were revised to match the plans. Also, a bid item was added for Zero Curb Cut-Back (Item No. 15).

6. Question: *The quantities on 4-inch PVC Trench & 4-inch PVC bore bid items for the traffic signal work appear to be flip flopped.*

Clarification: The quantities for the 4-inch PVC Trench & 4-inch PVC bore bid items for each of the traffic signals were revised in the Doc. 00410.

7. Question: *There is a 3-inch PVC conduit at Memorial and Kirkwood that is not in Doc. 00410.*

Clarification: Doc. 00410 was revised to add the 3-inch PVC conduit quantity.

8. Question: *The bid item for the LED Pedestrian Signal Head Assembly at the Clear Springs traffic signal should be 6, not 5.*

Clarification: Doc. 00410 was revised to show a bid quantity of 6 for this bid item.

9. Question: *Can the bid item for the Emergency Vehicle Pre-emption System for each traffic signal be changed to 1 since this is for one complete system, not for each head.*

Clarification: Doc. 00410 was revised to reflect a quantity of one for the Emergency Vehicle Pre-emption System at each signal.

10. Question: *The temporary traffic signal plans show an antennas. What kind of antennas are needed and what system are they for?*

Clarification: With regards to the antenna, the contractor is to transfer the existing antenna and any cables associated with the existing communication from the signal poles to the temporary wooden poles.

11. Question: *Is there any existing fiber, blue tooth, or other communication systems in place at the existing traffic signals?*

Clarification: With regards to the existing communication systems, in the event the contractor encounters fiber cable, the contractor is to splice the fiber cable per the City of Houston splicing charts.

12. Question: *Bid item shows 4" to 10" meter vault reconnect or relocate (plan quantity of 49 EA). Cannot find any on plans?*

Clarification: The meter locations were provided by the COH with a "meter run" within the limits of 14000 Memorial on the east end of the project to 15015 Memorial on the west end of the project with a street address for each meter. The topographic survey picked up less than half of the meters listed in the data sheet. Please note that this bid

item and quantity was revised to include all of the meters listed in the "meter run" and this data sheet with street locations will be provided to the contractor selected for this work.

END OF ADDENDUM NO. 5



Michael D. Lacy
5/12/2015

DATED:

Ravi Kaleyatodi
JK Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and
Engineering

RK:JHK:MR:sdd

END OF DOCUMENT

Document 00911

NOTICE OF
ADDENDUM NO. 5

Date of Addendum: 5/12/15

PROJECT NAME: Memorial Drive Paving and Drainage Improvements from North Kirkwood Road to North Eldridge Parkway

PROJECT NO: WBS No. N-000798-0001-4; CSJ No. 0912-70-082

BID DATE: May 14, 2015

FROM: John Kuo, P.E., Assistant Director
City of Houston, Department of Public Works and Engineering
P.O. Box 1562
Houston, Texas 77002
Attn: Michelle Randon, P.E., Project Manager

TO: Prospective Bidders

The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.

This Addendum includes:

ADDENDUM SYNOPSIS

Changes to Project Manual

1. Document 00410B - Replace document 00410 B in its entirety.

Clarifications

1. Written clarifications to questions submitted by the contractors are included with Addendum No. 5.

DATED: Ravi Kaleyatodi
Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and
Engineering

RK:JHK:MR:sdd

END OF DOCUMENT

Document 00410B

BID FORM - PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE

\$ [N/A]

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowance and All Alternates, if any)

B. BASE UNIT PRICE TABLE						
UNIT PRICES - GENERAL ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
1	01502	Mobilization	LS	1	\$475,000 ⁽¹⁾	\$475,000 ⁽¹⁾
2	01555	Traffic Control and Regulation	LS	1	\$650,000 ⁽²⁾	\$650,000 ⁽²⁾
3	01555	Flagmen	LS	1	\$300,000 ⁽²⁾	\$300,000 ⁽²⁾
4	01506	Diversion Pumping	LS	1		
5	02105	Preparatory Work for Sampling and Analysis in PPCA	LS	1	\$50,000 ⁽²⁾	\$50,000 ⁽²⁾
6	02120	Contaminated Groundwater from PPCA	GAL	500		
7	02120	Transportation and disposal of Class I soils	CY	5,000		
8	02120	Transportation and disposal of Class II soils	CY	2,500		
9	01562	Tree and Plant Protection (incl. removal, pruning & planning)	LS	1	\$180,000 ⁽²⁾	\$180,000 ⁽²⁾
10	01562	Remove tree 0 to 11.99-inches and/or Palm Tree	EA	109		
11	01562	Remove tree 12 to 29.99 inches	EA	16		
12	02915	Plant 3-inch Tree with 65 gallon Container	EA	30		
13	02915	Plant 3-inch Tree with 65-inch Spade or Cured Basket	EA	30		

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**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
14	01562	Install Checkerplate Sidewalk	SF	1,040		
15	01562	Zero Curb Cut-Back	LF	40		
16	02765	Temporary and Removable ReflectORIZED Pavement Markings, 4-Inch (White Or Yellow)	LF	48,600		
17	02765	Temporary And Removable ReflectORIZED Pavement Markings, 6-Inch (White Or Yellow)	LF	1,200		
18	02765	Temporary And Removable ReflectORIZED Pavement Markings, 12-Inch (White Or Yellow)	LF	480		
19	02765	Temporary And Removable ReflectORIZED Pavement Markings, 24-Inch (White Or Yellow)	LF	560		
20	01555	Install low profile concrete barriers	LF	2,590		
21	01555	Relocate low profile concrete barriers	LF	18,690		
22	01555	Remove low profile concrete barriers	LF	2,590		
23	01570	Inlet Protection Barriers	LF	970		
24	01570	Filter fabric fence	LF	17,390		
25	01570	Reinforced filter fabric barrier	LF	1,520		
26	01570	Filter Dam	LF	220		
27	01575	Stabilized Construction Exit	EA	4		
28	01578	Ground water control for open-cut construction	LF	2,500		
29	Drawings	Metro Bus Shelter including Slab, Complete in Place	EA	7		
30	Drawings	Metro 5' x 8' Wide Boarding Pads 4-1/2 Inch Thick Reinf Concrete	EA	22		
31	02221	Remove & Dispose of Conc. Pavements (incl. all thickness, w/ or w/o asphalt, incl. base & subgrade, w/ or w/o curb, all depths)	SY	11,756		
32	02221	Remove/Dispose 8-inch dia. storm pipe	LF	11		
33	02221	Remove/Dispose 12-inch dia storm pipe	LF	73		
34	02221	Remove/Dispose 15-inch dia storm pipe	LF	10		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
35	02221	Remove/Dispose 18-inch dia storm pipe	LF	1,310		
36	02221	Remove/Dispose 24-inch dia storm pipe	LF	8,213		
37	02221	Remove/Dispose 30-inch dia storm pipe	LF	858		
38	02221	Remove/Dispose 36-inch dia storm pipe	LF	1,048		
39	02221	Remove/Dispose 42-inch dia storm pipe	LF	310		
40	02221	Remove/Dispose 48-inch dia storm pipe	LF	1,791		
41	02221	Remove/Dispose 54-inch dia storm pipe	LF	1,286		
42	02221	Remove/Dispose 60-inch dia storm pipe	LF	2,161		
43	02221	Remove/Dispose 66-inch dia storm pipe	LF	766		
44	02221	Remove/Dispose 10-ft x 4-ft Box Culvert	LF	70		
45	02221	Remove/Dispose Inlets all sizes/depth	EA	67		
46	02221	Remove /Dispose Manholes all Sizes/depth	EA	26		
47	02222	Abandon and Fill Manhole	EA	5		
48	02222	Abandon 24-inch Dia Storm Sewer	LF	210		
49	02221	Abandon 16-inch Diameter AC Water Line	LF	515		
50	02221	Abandon 24-inch Diameter DI Water Line	LF	4,951		
51	02221	Remove/Dispose 24-inch diameter DI water line	LF	520		
52	02221	Remove/Dispose 16-inch diameter DI water line	LF	1,117		
53	02221	Remove/Dispose 8-inch diameter PVC water line	LF	15		
54	02221	Remove/Dispose 16-inch diameter CI water line	LF	45		
55	02221	Remove/Dispose 16-inch diameter Steel water line	LF	133		
56	02221	Remove/Dispose Abandoned Gas Lines (all types, all sizes)	LF	300		
57	02233	Remove, store & restore tubular steel or wrought iron fence	LF	220		
58	02260	Trench safety system for trench excavations	LF	33,463		

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**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
59	02921	Hydromulch seeding	AC	3		
60	02922	Sodding	SY	4,750		
61	Drawings	Portable Electronic Changeable Message Sign	WEEK	36		
TOTAL UNIT PRICES - GENERAL ITEMS						
UNIT PRICES - BRIDGE ITEMS						
62	02221	Remove and Dispose of Exist Bridge incl Conc Low Flow Section (http://www.dot.state.tx.us/des/specs/2004/itm04ndx.htm)	LS	1		
63	TXDOT 420-2003	Abutments & Wingwalls, (NS, NG) incl. excavation, complete in place (http://www.dot.state.tx.us/des/specs/2004/itm04ndx.htm)	CY	102		
64	HCFC D 02378	Rip-Rap Gradation No. 2, 24-inch Thick Mat, incl Excavation, Complete in Place	CY	576		
65	02631 02441	10-ft by 10-ft Reinforced Concrete Box Storm Sewer by Pipe-Jacked Tunnel with Concrete Seal Slab, Complete in Place w/Flowable Fill Backfill	LF	210		
66	02631	10-foot by 10-foot Reinf Conc Box Storm Sewer by Open Cut w Conc. Seal Slab, Complete in Place	LF	237		
67	02775	5-inch Thick Reinforced Concrete Slope Paving, Complete in Place	SY	452		
68	02775	5-inch Thick Reinforced Concrete Apron, Complete in Place	SY	274		
TOTAL UNIT PRICES - BRIDGE ITEMS						
UNIT PRICES - PAVING ITEMS						
69	02221	Remove/Dispose Asphalt Surface/with or without Base	SY	63,688		
70	02221	Remove/Dispose Conc Driveway 6-inch Thick/More	SY	10,796		
71	02221	Remove/ Dispose Conc Sidewalk 4-inch thick/More	SY	6,158		
72	02336	Roadway Excavation with or without Subgrade	CY	40,026		
73	02336	Lime for Lime stabilized Subgrade (DRY WEIGHT)	TON	589		
74	02337	Fly Ash	TON	2,356		

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**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
75	02337	Lime/Fly Ash Stabilized Subgrade 8-inch Thick	SY	98,184		
76	02711	Hot Mix Asphalt Base Course (Type A/B) / All Thickness	TON	1,223		
77	02741	Hot Mix Asphalt Concrete Pavement 4-inch thick	TON	605		
78	02741	Temporary Asphalt Concrete Pavement for Detour / Roadway & shoulder (1.5 inch HMA surface w/8-inch HMA black base)	SY	42,850		
79	02751	High Early Strength Reinforced Concrete Pavement 10-inch Thick	SY	89,864		
80	02752	Street Pavement Expansion Joint with Load transfer	LF	12,018		
81	02752	Street Pavement Expansion Joint without Load transfer	LF	32,264		
82	02752	Horizontal Dowel, 24-Inch	EA	275		
83	02754	Concrete Driveways including Excavation 6-inch thick	SF	63,593		
84	02762	Blast cleaning pavement markers 4-inch wide lines	LF	36,600		
85	02762	Blast cleaning pavement markers 8-inch wide lines	LF	1,680		
86	02762	Blast cleaning pavement markers 24-inch wide lines	LF	600		
87	02764	Raised Pavement Marker Type II C-R	EA	540		
88	02767	Thermoplastic Pavement Marking 4-inch wide White/Yellow (SLD/BRK)	LF	7,810		
89	02767	Thermoplastic Pavement Marking 6-inch wide White/Yellow	LF	7,740		
90	02767	Thermoplastic Pavement Marking 12-inch wide White/Yellow	LF	3,700		
91	02767	Thermoplastic Pavement Marking 24-inch wide White/Yellow	LF	1,100		
92	02767	Thermoplastic Pavement Marking symbol TURNING ARROW, white, solid	EA	102		
93	02767	Thermoplastic Pavement Marking Elongated Word ONLY, White, Solid	EA	22		
94	02767	Thermoplastic Pavement Marking BIKE Symbol, White, Solid	EA	60		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
95	2767	Thermoplastic Pavement Marking Yellow Curb	LF	4,970		
96	01554 01555 Drawings	Ground Mounted Sign and Galv Square Sign Post Assembly per COH Detail Dwg 01509-01	EA	270		
97	02771	6-Inch Doweled Curb	LF	42,499		
98	02771	Concrete Paving Header	LF	1,274		
99	02772	6-inch Concrete Median or Directional Island	SY	2,279		
100	2771	Concrete Retaining Wall (6-inch to 24-inch Height), Complete in Place	LF	725		
101	02775	Sidewalk 4-1/2-inch thick	SF	89,153		
102	02775	Wheelchair Ramps and sidewalks, complete in place	SF	5,931		
103	02960	Milling Asphalt pavement up to 2-inches	SY	2,768		
104	02714	Flexible Base Course/Temp Driveways Residential up to 12 Ft Wide	EA	10		
105	02714	Flexible Base Course/Temp Driveways Commercial up to 24 Ft Wide	EA	150		
106	02752S	Saw Cutting	LF	996		
107	02581	Conduit 2-inch Sch 80 PVC	LF	1,050		
108	02581	Conduit 2-inch Sch 40 PVC	LF	8,160		
TOTAL - PAVEMENT ITEMS						
UNIT PRICES - STORM SEWER ITEMS INCLUDING IN-LINE DETENTION						
109	02081 02082 02087	Type C manhole for 42-inch diameter and smaller sewers	EA	70		
110	02081 02082 02087	Extra Depth (greater than 8 feet) for Type C Manhole for 42-inch dia and Smaller Sewers	VF	56		
111	02081 02082 02087	Type C manhole for 48-inch to 72-inch diameter sewers	EA	11		
112	02081 02082 02087	Extra Depth (greater than 8 feet) for Type C Manhole for 48-inch to 72-inch Sewers	VF	29		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
113	02081 02082 02087	Type C manhole for 78-inch diameter sewers and greater	EA	2		
114	02081 02082 02087	Extra Depth (greater than 8 feet) for Type C Manhole for 78-inch and greater Sewers	VF	10		
115	02081 02082 02087	Type C manhole w/Restrictor Plate for 48-inch to 72-inch Diameter Sewers and Greater	EA	2		
116	02081 02082 02087	Manhole for Concrete Box Sewers	EA	40		
117	02632/ 02633	Type E Inlet (Cast in Place)	EA	1		
118	02632/ 02633	Type A grate inlet	EA	32		
119	TxDOT 465- 2098	TxDOT Type C Inlet (COMPL) (TY C)*	EA	43		
120	TxDOT 465- 2098	TxDOT Type C-1 Inlet (COMPL) (TY C1)*	EA	18		
121	02632 02633	Type B-B Inlet	EA	2		
122	02315	Construction of roadside ditch	LF	4,064		
123	2633	24-inch diameter storm sewer lead by open cut	LF	3,344		
124	02631	24-inch diameter storm sewer by open cut	LF	1,481		
125	02631	30-inch diameter storm sewer by open cut	LF	376		
126	02631	36-inch diameter storm sewer by open cut	LF	1,458		
127	02631	42-inch diameter storm sewer by open cut	LF	71		
128	02631	48-inch diameter storm sewer by open cut	LF	1,074		
129	02631	60-inch diameter storm sewer by open cut	LF	124		
130	02631	72-inch diameter storm sewer by open cut	LF	90		
131	02631	84-inch diameter storm sewer by open cut	LF	232		
132	02631	7-ft by 4-ft box storm sewer by open cut	LF	237		
133	02631	7-ft by 5-ft box storm sewer by open cut	LF	1,446		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
134	02631	7-ft by 6-ft box storm sewer by open cut	LF	5,272		
135	02631	8-ft by 4-ft box storm sewer by open cut	LF	505		
136	02631	8-ft by 5-ft box storm sewer by open cut	LF	679		
137	02631	8-ft by 6-ft box storm sewer by open cut	LF	602		
138	02631	10-ft by 5-ft box storm sewer by open cut	LF	942		
139	02631	10-ft by 6-ft box storm sewer by open cut	LF	188		
140	02631	Junction Box A-2 w/MH Top at Sta. 8+77 w/Restrictor Plate (27 sf opening)	EA	1		
141	02631	Junction Box D-141 w/MH Top at Sta. 12+91 on North Kirkwood	EA	1		
142	02631	Junction Box A-23 w/MH Top at Sta. 18+28 w/2-Restrictor Plates (2-8.25 sf openings)	EA	1		
143	02631	Junction Box A-42 w/MH Top at Sta. 25+56	EA	1		
144	02631	Junction Box B-4 w/MH Top at Sta. 42+72.91	EA	1		
145	02631	Junction Box B-22 w/MH Top at Sta. 49+55 w/2-Restrictor Plates (1-4.91 SF Opening and 1-17 SF Opening)	EA	1		
146	02631	Junction Box D-39 w/MH Top at Sta. 75+53	EA	1		
147	02631	Junction Box D-43 w/MH Top at Sta. 80+61	EA	1		
148	02631	Junction Box D-52 w/MH Top at Sta. 82+55 w/2-Restrictor Plates (2-33.9 sf openings)	EA	1		
149	02631	Junction Box D-56 w/MH Top at Sta. 84+44	EA	1		
150	02631	Junction Box D-74 w/MH Top at Sta. 93+15 w/2-Restrictor Plates (2-39 SF openings)	EA	1		
151	02631	Junction Box D-81 w/MH Top at Sta. 94+09	EA	1		
152	02631	Junction Box D-102 w/MH Top at Sta. 100+51	EA	1		
153	02631	Junction Box D-130 w/MH Top at Sta. 109+12 w/2-Restrictor Plates (2-21 SF openings)	EA	1		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
154	02631	Junction Box C-13 w/MH Top at Sta. 57+37	EA	1		
155	02631	Modify Exist Junction Box D-134 at Sta.109+82	EA	1		
156	02631	SET for 24-inch Storm	EA	2		
157	02631	SET for 36-inch Storm	EA	1		
TOTAL UNIT PRICES - STORM SEWER ITEMS						
UNIT PRICES - WASTEWATER ITEMS						
158	02082	4-ft dia precast concrete manholes	EA	44		
159	02082	5-ft dia precast concrete manholes	EA	5		
160	02082	6-ft dia precast concrete manholes	EA	2		
161	02082	7-ft dia precast concrete manholes	EA	10		
162	02082	8-ft dia precast concrete manholes	EA	1		
163	02082	Extra depth, 4-foot diameter precast concrete manhole	VF	299		
164	02082	Extra depth, 5-foot diameter precast concrete manhole	VF	61		
165	02082	Extra depth, 7-foot diameter precast concrete manhole	VF	64		
166	02082	Extra depth, 8-foot diameter precast concrete manhole	VF	11		
167	02082	Manhole drops; 8-inch diameter, all depths	EA	6		
168	02082	Manhole drops; 12 inches and greater diameter, all depths	EA	2		
169	02531	6-inch diameter sanitary sewer, by open-cut	LF	18		
169	02531	8-inch diameter sanitary sewer, by open-cut	LF	320		
170	02531	8-inch diameter sanitary sewer within PPCA	LF	57		
171	02531	10-inch diameter sanitary sewer, by open-cut	LF	1,478		
172	02531	10-inch diameter sanitary sewer within PPCA	LF	54		
173	02531	12-inch diameter sanitary sewer, by open-cut	LF	1,288		

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WBS No. N-000798-0001-4; CSJ 0912-70-082

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PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
174	02531	12-inch diameter sanitary sewer, by pipe augering with casing	LF	1,097		
175	02531	12-inch diameter sanitary sewer within PPCA	LF	55		
176	02531	18-inch diameter sanitary sewer, by open-cut	LF	1,458		
177	02531	18-inch diameter sanitary sewer within PPCA	LF	189		
178	02448	24-inch diameter sanitary sewer, by pipe augering	LF	828		
179	02448	24-inch diameter ductile iron sanitary sewer, by pipe augering	LF	316		
180	02531	30-inch diameter sanitary sewer, by open-cut	LF	2,127		
181	02531	30-inch diameter sanitary sewer within PPCA	LF	100		
182	02222	Abandon and fill 6-inch dia sewer	LF	87		
183	02222	Abandon and fill 8-inch dia sewer	LF	80		
184	02222	Abandon and fill 10-inch dia sewer	LF	2,085		
185	02222	Abandon and fill 12-inch dia sewer	LF	1,362		
186	02222	Abandon and fill 15-inch dia sewer	LF	304		
187	02222	Abandon and fill 16-inch dia sewer	LF	32		
188	02222	Abandon and fill 18-inch dia sewer	LF	1,869		
189	02222	Abandon and fill 27-inch dia sewer	LF	2,198		
190	02222	Abandon and fill manhole	EA	24		
191	02221	Remove and dispose - 10-inch diameter sanitary sewer	LF	68		
192	02221	Remove and dispose - 12-inch diameter sanitary sewer	LF	28		
193	02221	Remove and dispose - 16-inch diameter sanitary sewer	LF	18		
194	02221	Remove and dispose - 18-inch diameter sanitary sewer	LF	410		
195	2534	Service stubs or reconnections including construction of stack on sanitary sewer	EA	20		
TOTAL UNIT PRICES - WASTEWATER ITEMS						

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - WATER ITEMS						
196	02511	4-inch dia water line by open cut	LF	60		
197	02511	6-inch diameter water line by trenchless construction	LF	20		
198	02511	6-inch dia water line by open-cut	LF	429		
199	02511	8-inch dia water line by open-cut	LF	1,061		
200	02511	8-inch dia DIP water line by open cut with restrained joint within limits of PPCA	LF	75		
201	02511	8-inch dia DIP water line by trenchless construction w/ restrained joint w/in limits of PPCA	LF	10		
202	02511	12-inch dia water line by open-cut	LF	494		
203	02511	12-inch dia DIP water line by open cut with restrained joint within limits of PPCA	LF	25		
204	02511	12-inch dia DIP water line by trenchless construction w/ restrained joint w/in limits of PPCA	LF	50		
205	02511	16-inch dia water line by open-cut	LF	475		
206	02511	16-inch dia water line by open-cut with restrained joints	LF	800		
207	02511	16-inch dia water line by trenchless construction	LF	190		
208	02511	16-inch dia water line by trenchless construction with restrained joints	LF	45		
209	02511	16-inch dia water line with restrained joints w/in limits of PPCA	LF	37		
210	02511	16-inch dia water line by trenchless construction with restrained joints w/in limits of PPCA	LF	20		
211	02511	24-inch dia water line by open-cut	LF	3,959		
212	02511	24-inch diameter water line by open-cut with restrained joints	LF	621		
213	02511 02517	24-inch dia water line in tunnel with steel casing by trenchless construction with restrained joints	LF	87		
214	02511	24-inch diameter water line with restrained joints within limits of PPCA	LF	156		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
215	02511	24-inch dia water line in steel casing by trenchless construction within limits of PPCA	LF	20		
216	02511	24-inch diameter water line within limits of PPCA	LF	90		
217	02511	4-inch diameter wet connection	EA	1		
218	02511	6-inch diameter wet connection	EA	1		
219	02511	8-inch diameter wet connection	EA	6		
220	02511	12-inch diameter wet connection	EA	1		
221	02511	16-inch diameter wet connection	EA	17		
222	02511	24-inch diameter wet connection	EA	2		
223	02516	Cut, plug, and abandon existing 4-inch diameter water line	EA	1		
224	02516	Cut, plug, and abandon existing 6-inch diameter water line	EA	4		
225	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	7		
226	02516	Cut, plug, and abandon existing 8-inch diameter water line within limits of PPCA	EA	1		
227	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	5		
228	02516	Cut, plug, and abandon existing 12-inch diameter water line within limits of PPCA	EA	1		
229	02516	Cut, plug, and abandon existing 16-inch diameter water line	EA	3		
230	02516	Cut, plug, and abandon existing 16-inch diameter water line within limits of PPCA	EA	1		
231	02516	Cut, plug, and abandon existing 24-inch diameter water line	EA	1		
232	02521	3-inch Dia Combination Air Valve Assembly	EA	2		
233	02521	24-inch Butterfly Valve w/Manhole	EA	4		
234	02525	24-inch by 6-inch diameter tapping sleeve and valve within limits of PPCA	EA	1		
235	02525	24-inch by 16-inch diameter tapping sleeve and valve within limits of PPCA	EA	1		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
236	02525	24-inch by 24-inch diameter tapping sleeve and valve within limits of PPCA	EA	1		
237	02525	16-inch by 6-inch diameter tapping sleeve and valve	EA	5		
238	02525	16-inch by 8-inch diameter tapping sleeve and valve	EA	1		
239	02525	16-inch by 12-inch diameter tapping sleeve and valve	EA	3		
240	02526	Remove, relocate and reinstall water meter with new box and/or vault to fit new grade, reconnect to proposed water line, replace all damaged or missing parts, complete in place.	EA	116		
241	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA	15		
242	02512	3/4-inch to 1-inch diameter watertaps and service line with meter box, long side	EA	15		
243	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box within limits of PPCA, short side	EA	2		
244	02512	3/4-inch to 1-inch diameter watertaps and service line with meter box within limits of PPCA, long side	EA	2		
245	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, short side	EA	52		
246	02512	1-1/2-inch to 2-inch diameter watertaps and service line with meter box, long side	EA	52		
247	02520	Remove and Salvage Existing Fire Hydrant	EA	21		
248	02520	Remove and Salvage Existing Fire Hydrant within limits of PPCA	EA	1		
249	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	17		
250	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box, within limits of PPCA	EA	1		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
251	02520	6-inch diameter fire hydrant branch by open-cut	LF	356		
252	02520	6-inch diameter DIP fire hydrant branch by open-cut with restrained joints, within limits of PPCA	LF	5		
253	16640	Cathodic Protection System	LS	1		
TOTAL UNIT PRICES - WATER ITEMS						
UNIT PRICES - TRAFFIC SIGNALIZATION						
254		Temporary Traffic Signalization	EA	7		
MEMORIAL AT NORTH ELDRIDGE PARKWAY						
255	02582	40-Ft. Mast Arm Pole Assembly with Foundation	EA	3		
256	02582	50-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
257	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	4		
258	02893	Remove And Salvage Existing Traffic Signal Equipment	EA	1		
259	02893	Overhead Street Name Signs	EA	4		
260	02893	Sign, "Left On Green Arrow Only" R10-5 (24" X 30")	EA	8		
260	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	7		
261	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	7		
262	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
263	16711	Conduit, 1-in Sch 80 PVC Trench	LF	70		
264	16711	Conduit, 2- in Sch 80 PVC Trench	LF	150		
265	16711	Conduit, 2-in Sch 80 PVC Bore	LF	60		
266	16711	Conduit, 2-in RMC	LF	50		
267	16711	Conduit, 3-in Sch 80 PVC Trench	LF	40		
268	16711	Conduit, 4-in Sch 80 PVC Trench	LF	140		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
269	16711	Conduit, 4-in Sch 80 PVC Bore	LF	410		
270	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	9		
271	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Horiz) (H3L)	EA	4		
272	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Vert) (V3L)	EA	4		
273	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	8		
274	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	9,430		
275	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	1,560		
276	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	1,560		
277	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	3,540		
278	16720	#4 THHN Service Wire	LF	210		
279	16724	Emergency Vehicle Pre-emption System	EA	1		
280	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	25		
281	16727	Traffic Signal Saw-Cut Loop Detector (6' x 6')	EA	7		
282	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
283	16734	Wimax	EA	1		
284	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
285	02893-14	Electrical Service Pedestal Assembly-(Square "D" Breakers Included)	EA	1		
286	16732	Uninterruptible Power Supply	EA	1		
287	16750	Accessible Pedestrian Push Button Station	EA	8		
288	16785	GPS Serial Communication Module	EA	1		
289	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT NORTH ELDRIDGE PARKWAY TRAFFIC SIGNAL						

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
MEMORIAL AT NOTTINGHAM OAKS TRAFFIC SIGNAL IMPROVEMENTS						
290	02582	25-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
291	02582	35-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
292	02582	45-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
293	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	4		
294	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
295	02893	Remove And Salvage Existing Traffic Signal Equipment	EA	1		
296	02893	Overhead Street Name Signs	EA	4		
297	02893	Sign, "Left On Green Arrow Only" R10-12 (24" X 30")	EA	2		
298	02893	Sign, "Left Turn Yield on Yellow Flashing Arrow" R10-17T (24" X 30")	EA	4		
299	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	5		
300	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	9		
301	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
302	16711	Conduit, 1-in Sch 80 PVC Trench	LF	60		
303	16711	Conduit, 2- in Sch 80 PVC Trench	LF	750		
304	16711	Conduit, 2-in Sch 80 PVC Bore	LF	150		
305	16711	Conduit, 2-in RMC	LF	90		
306	16711	Conduit, 3-in Sch 80 PVC Trench	LF	130		
307	16711	Conduit, 4-in Sch 80 PVC Trench	LF	200		
308	16711	Conduit, 4-in Sch 80 PVC Bore	LF	280		
309	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	8		
310	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Horizontal) (H4LF)	EA	2		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
311	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Vertical) (V4FL)	EA	2		
312	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	4		
313	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	4,730		
314	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	410		
315	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	410		
316	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	2,220		
317	16720	#4 THHN Service Wire	LF	510		
318	16724	Emergency Vehicle Pre-emption System	EA	1		
319	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	16		
320	16727	Traffic Signal Preformed Loop Detector (10' x 6')	EA	2		
321	16727	Traffic Signal Saw-Cut Loop Detector (8' x 6')	EA	2		
322	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
323	16734	Wimax	EA	1		
324	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
325	16732	Uninterruptible Power Supply	EA	1		
326	16750	Accessible Pedestrian Push Button Station	EA	4		
327	16785	GPS Serial Communication Module	EA	1		
328	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT NOTTINGHAM OAKS TRAFFIC SIGNAL						
MEMORIAL AT DAIRY ASHFORD						
329	02582	45-Ft. Mast Arm Pole Assembly with Foundation	EA	3		
330	02582	50-Ft. Mast Arm Pole Assembly with Foundation	EA	1		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
331	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	4		
332	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
333	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
334	02893	Overhead Street Name Signs	EA	4		
335	02893	Sign, Left On Green Arrow Only" R10-5 (24" X 30")	EA	8		
336	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	6		
337	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	5		
338	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
339	16711	Conduit, 1-In Sch 80 PVC Trench	LF	60		
340	16711	Conduit, 2-In Sch 80 PVC Trench	LF	1,170		
341	16711	Conduit, 2-In Sch 80 PVC Bore	LF	130		
342	16711	Conduit, 2-In RMC	LF	50		
343	16711	Conduit, 3-In Sch 80 PVC Trench	LF	30		
344	16711	Conduit, 4-In Sch 80 PVC Trench	LF	190		
345	16711	Conduit, 4-In Sch 80 PVC Bore	LF	420		
346	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	12		
347	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Horizontal) (H3L)	EA	4		
348	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Vertical) (V3L)	EA	4		
349	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	8		
350	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	9,170		
351	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	1,290		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
352	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	1,290		
353	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	3,480		
354	16720	#4 THHN Service Wire	LF	180		
355	16724	Emergency Vehicle Preemption System	EA	1		
356	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	34		
357	16727	Traffic Signal Saw-Cut Loop Detector (6' x 6')	EA	6		
358	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070L)	EA	1		
359	16734	Wimax	EA	1		
360	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
361	16732	Uninterruptible Power Supply	EA	1		
362	16750	Accessible Pedestrian Push Button Station	EA	8		
363	16785	GPS Serial Communication Module	EA	1		
364	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT DAIRY ASHFORD TRAFFIC SIGNAL						
MEMORIAL AT TULLY TRAFFIC SIGNAL IMPROVEMENTS						
365	02582	25-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
366	02582	35-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
367	02582	40-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
368	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	3		
369	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
370	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
371	02893	Overhead Street Name Signs	EA	4		
372	02893	Sign, "Left Turn Yield on Yellow Flashing Arrow" R10-17T (24" X 30")	EA	4		

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Memorial Drive Paving and Drainage Improvements
WBS No. N-000798-0001-4; CSJ 0912-70-082

**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
373	02893	Sign, Left Turn Yield On Green Ball" R10-12 (24" X 30")	EA	2		
374	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	5		
375	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	5		
376	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
377	16711	Conduit, 1-In Sch 80 PVC Trench	LF	30		
378	16711	Conduit, 2-In Sch 80 PVC Trench	LF	680		
379	16711	Conduit, 2-In Sch 80 PVC Bore	LF	90		
380	16711	Conduit, 2-In RMC	LF	40		
381	16711	Conduit, 3-In Sch 80 PVC Trench	LF	290		
382	16711	Conduit, 4-In Sch 80 PVC Trench	LF	90		
383	16711	Conduit, 4-In Sch 80 PVC Bore	LF	270		
384	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	8		
385	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Horizontal) (H4LF)	EA	2		
386	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Vertical) (V4LF)	EA	2		
387	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	4		
388	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	3,080		
389	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	470		
390	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	470		
391	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	1,730		
392	16720	#4 THHN Service Wire	LF	130		
393	16724	Emergency Vehicle Preemption System	EA	1		
394	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	16		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
395	16727	Traffic Signal Preformed Loop Detector (10' x 6')	EA	1		
396	16727	Traffic Signal Saw-Cut Loop Detector (8' x 6')	EA	1		
397	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
398	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
399	16732	Uninterruptible Power Supply	EA	1		
400	16734	Wimax	EA	1		
401	16750	Accessible Pedestrian Push Button Station	EA	4		
402	16785	GPS Serial Communication Module	EA	1		
403	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT TULLY TRAFFIC SIGNAL IMPROVEMENTS						
MEMORIAL AT CLEAR SPRING TRAFFIC SIGNAL IMPROVEMENTS						
404	02582	30-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
405	02582	35-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
406	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	3		
407	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
408	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
409	02893	Overhead Street Name Signs	EA	4		
410	02893	Sign, "Left Turn Yield On Green Ball" R10-12 (24" X 30")	EA	2		
411	02893	Sign, "Left Turn Yield on Yellow Flashing Arrow" R10-17T (24" X 30")	EA	4		
412	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	7		
413	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	4		
414	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
415	16711	Conduit, 1-In Sch 80 PVC Trench	LF	60		

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Memorial Drive Paving and Drainage Improvements
WBS No. N-000798-0001-4; CSJ 0912-70-082

**BID FORM
PART B**

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
416	16711	Conduit, 2-In Sch 80 PVC Trench	LF	610		
417	16711	Conduit, 2-In Sch 80 PVC Bore	LF	80		
418	16711	Conduit, 2-In RMC	LF	60		
419	16711	Conduit, 3-In Sch 80 PVC Trench	LF	70		
420	16711	Conduit, 4-In Sch 80 PVC Trench	LF	140		
421	16711	Conduit, 4-In Sch 80 PVC Bore	LF	290		
422	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	8		
423	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Horizontal) (H4LF)	EA	2		
424	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Vertical) (V4LF)	EA	2		
425	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	6		
426	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	3,660		
427	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	670		
428	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	670		
429	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	1,880		
430	16720	#4 THHN Service Wire	LF	260		
431	16724	Emergency Vehicle Preemption System	EA	1		
432	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	16		
433	16727	Traffic Signal Preformed Loop Detector (8' x 6')	EA	2		
434	16727	Traffic Signal Saw-Cut Loop Detector (10' x 6')	EA	2		
435	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
436	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
437	16732	Uninterruptible Power Supply	EA	1		
438	16734	Wimax	EA	1		

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
439	16750	Accessible Pedestrian Push Button Station	EA	6		
440	16785	GPS Serial Communication Module	EA	1		
441	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT CLEAR SPRING TRAFFIC SIGNAL IMPROVEMENTS						
MEMORIAL AT BATESWOOD TRAFFIC SIGNAL IMPROVEMENTS						
442	02582	25-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
443	02582	35-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
444	02582	40-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
445	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	1		
446	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
447	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
448	02893	Overhead Street Name Signs	EA	4		
449	02893	Sign, "Left Turn Yield on Yellow Flashing Arrow" R10-17T (24" X 30")	EA	4		
450	02893	Sign, "Left Turn Yield On Green Ball" R10-12 (24" X 30")	EA	2		
451	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	6		
452	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	6		
453	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
454	16711	Conduit, 1-In Sch 80 PVC Trench	LF	50		
455	16711	Conduit, 2-In Sch 80 PVC Trench	LF	580		
456	16711	Conduit, 2-In Sch 80 PVC Bore	LF	60		
457	16711	Conduit, 2-In RMC	LF	70		
458	16711	Conduit, 3-In Sch 80 PVC Trench	LF	90		
459	16711	Conduit, 4-In Sch 80 PVC Trench	LF	190		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
460	16711	Conduit, 4-In Sch 80 PVC Bore	LF	260		
461	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	8		
462	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Horizontal) (H4LF)	EA	2		
463	16715	4-Section Vehicle Signal Head Assembly (<R<Y<Y<YG) (Vertical) (V4LF)	EA	2		
464	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	4		
465	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	3,250		
466	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	500		
467	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	500		
468	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	1,590		
469	16720	#4 THHN Service Wire	LF	240		
470	16724	Emergency Vehicle Preemption System	EA	1		
471	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	16		
472	16727	Traffic Signal Sawed Loop Detector (8' x 6')	EA	2		
473	16727	Traffic Signal Preformed Loop Detector (10' x 6')	EA	2		
474	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
475	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
476	16732	Uninterruptible Power Supply	EA	1		
477	16734	Wimax	EA	1		
478	16750	Accessible Pedestrian Push Button Station	EA	4		
479	16785	GPS Serial Communication Module	EA	1		
480	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT BATESWOOD TRAFFIC SIGNAL IMPROVEMENTS						

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
MEMORIAL AT KIRKWOOD TRAFFIC SIGNAL IMPROVEMENTS						
481	02582	35-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
482	02582	50-Ft. Mast Arm Pole Assembly with Foundation	EA	1		
483	02582	55-Ft. Mast Arm Pole Assembly with Foundation	EA	2		
484	02893-07	Pedestal Pole Assembly with Conc Foundation	EA	4		
485	02893-14	Electrical Service Pedestal Assembly - (Square "D" Breakers Included)	EA	1		
486	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
487	02893	Overhead Street Name Signs	EA	4		
488	02893	Sign, "Left On Green Arrow Only" R10-5 (24" X 30")	EA	8		
489	02893	Sign, "Dual Left Turn Lanes" R10-08 (24" X 30")	EA	2		
490	16710	Type "A" Pull Box With Apron, Gravel And Ground Rod	EA	7		
491	16710	Type "B" Pull Box With Apron, Gravel And Ground Rod	EA	9		
492	16710	Type "C" Pull Box With Apron, Gravel And Ground Rod	EA	1		
493	16711	Conduit, 1-In Sch 80 PVC Trench	LF	60		
494	16711	Conduit, 2-In Sch 80 PVC Trench	LF	490		
495	16711	Conduit, 2-In Sch 80 PVC Bore	LF	40		
496	16711	Conduit, 2-In RMC	LF	50		
497	16711	Conduit, 3-In Sch 80 PVC Trench	LF	30		
498	16711	Conduit, 4-In Sch 80 PVC Trench	LF	350		
499	16711	Conduit, 4-In Sch 80 PVC Bore	LF	550		
500	16715	3-Section Vehicle Signal Head Assembly (RYG) (Horizontal) (H3)	EA	8		
501	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Horizontal) (H3L)	EA	6		
502	16715	3-Section Vehicle Signal Head Assembly (<R<Y<G) (Vert.) (V3L)	EA	4		

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
503	16719	Led Pedestrian Signal Head Assembly (Symbolic) (Countdown)	EA	8		
504	16720	Traffic Signal Cables, Detector Lead-In Cable 2/C-14 Awg IMSA 50-2-1984	LF	11,420		
505	16720	Traffic Signal Cables, 3/C-#14 Awg Solid Cable	LF	1,660		
506	16720	Traffic Signal Cables, 5/C-#14 Awg Solid Cable	LF	1,660		
507	16720	Traffic Signal Cables, 7/C-#14 Awg Solid Cable	LF	4,210		
508	16720	#4 THHN Service Wire	LF	220		
509	16724	Emergency Vehicle Preemption System	EA	1		
510	16727	Traffic Signal Preformed Loop Detector (6' x 6')	EA	36		
511	16727	Traffic Signal Saw-Cut Loop Detector (6' x 6')	EA	4		
512	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070I)	EA	1		
513	02893-10C	Controller Cabinet Foundation with Apron	EA	1		
514	16732	Uninterruptible Power Supply	EA	1		
515	16734	Wimax	EA	1		
516	16750	Accessible Pedestrian Push Button Station	EA	8		
517	16785	GPS Serial Communication Module	EA	1		
518	02221	Remove Existing Pole Foundation	EA	4		
SUB-TOTAL MEMORIAL AT KIRKWOOD TRAFFIC SIGNAL IMPROVEMENTS						
TOTAL TRAFFIC SIGNAL IMPROVEMENTS						

C. EXTRA UNIT PRICE TABLE:

519	02221	Remove Miscellaneous Concrete and Masonry	CY	100	\$15.00 ⁽²⁾	
520	02317	6-Inch Over-Excavate Trench Bottom	LF	100	\$4.00 ⁽²⁾	
521	02318	Extra Hand Excavation Around Obstacles	CY	100	\$20.00 ⁽²⁾	

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Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
522	02318	Extra Hand Excavation	CY	100	\$20.00 ⁽²⁾	
523	02318	Extra Machine Excavation	CY	100	\$20.00 ⁽²⁾	
524	02318	Extra Placement of Backfill Material	CY	100	\$10.00 ⁽²⁾	
525	02318	Extra Placement of Granular Fill Material	CY	100	\$40.00 ⁽²⁾	
526	02318	Extra Cement Stabilized Sand	CY	100	\$30.00 ⁽²⁾	
527	02501	Extra Ductile Iron Compact Fittings in Place	Ton	1	\$3,000.00 ⁽²⁾	
528	2511	Extra Water Fittings in Place	Ton	1	\$3,000.00 ⁽²⁾	
529	03315	Extra Grade 60 Reinforcing Steel	LB	2,000	\$1.00 ⁽²⁾	
530	03315	Extra Class "A" Concrete with or without forms	CY	100	\$60.00 ⁽²⁾	
531	02751	10-Inch High Early Strength Concrete Pavement	SY	200	\$70.00 ⁽²⁾	
532	02319	Borrow/Embankment	CY	100	\$20.00 ⁽²⁾	
533	02751	Extra Horizontal Dowels, 3/8-inch	EA	100	\$40.00 ⁽²⁾	
534	02105	Extra Work for PPCA Handling	LS	1	\$10,000.00 ⁽³⁾	
535	02120	Excavation Around Obstructions in PPCA	CY	100	\$40.00 ⁽²⁾	
536	02120	Extra Placement of Backfill Material in PPCA	CY	100	\$20.00 ⁽²⁾	

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ADDENDUM NO. 5

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
537	02120	Extra Hand Excavation in PPCA	CY	100	\$20.00 ⁽²⁾	
538	02120	Extra Machine Excavation in PPCA	CY	100	\$20.00 ⁽²⁾	
539	02120	Extra Offsite Transportation and Disposal of Contaminated Groundwater from PPCA	GAL	500	\$6.00 ⁽³⁾	
540	02120	Extra Offsite transportation and disposal of Class I soils	CY	500	\$30.00 ⁽²⁾	
541	02120	Extra Offsite transportation and disposal of Class II soils	CY	500	\$35.00 ⁽²⁾	
542	02120	6-Inch Over Excavate Trench Bottom in PPCA	LF	200	\$4.00 ⁽²⁾	
TOTAL UNIT PRICES - EXTRA WORK ITEMS						

D. CASH ALLOWANCES

543	01110	City of Houston Street Cut Permits	CA	1	\$3,500.00	\$3,500.00
544	01110	HCFC D Permit	CA	1	\$150.00	\$150.00
545	01110	City of Houston Floodplain Management Office Development Permit	CA	1	\$2,725.00	\$2,725.00
546	01110	Street Light Cash Allowance	CA	1	\$41,512.00	\$41,512.00
TOTAL CASH ALLOWANCES						\$47,887.00

E. ALTERNATES TABLE: (N/A)

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures

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ADDENDUM NO. 5

F. TOTAL BID PRICE \$ _____
(Add Totals for Items A., B., C., D. and E. above)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder: _____
(Print or type full name of your proprietorship, partnership, corporation, or joint venture.)*

** By: _____
(Signature) Date

Name: _____
(Print or type name) Title

Address: _____
(Mailing)

(Street, if different)

Telephone & Fax Number: _____
(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: Under Section 231.006, Family Code, the Bidder certifies that the individual or business entity named in this bid is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate."

This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Lump Sum Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

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